What is claimed is:

- A method for fabricating a surface mountable chip inductor, comprising:
- forming a cylindrical body by mixing ferrite or ceramic powder with thermoplastic organic binder;

forming a coil pattern on a surface of the cylindrical body; and

transforming the cylindrical body into a square-shaped body by inserting the cylindrical body formed the coil pattern into a square-shaped mold and applying pressure to the inserted cylindrical body at a certain temperature.

The method of claim 1, wherein the coil pattern forming process comprises the steps of:

forming a metal layer on the surface of the cylindrical body; and forming a coil pattern as a spiral shape on the metal layer.

- The method of claim 2, wherein a material of the metal layer is one of Ag, Al, Au, Pt, Ni, Cu, Pd and Sn or metal alloy including at least one of them.
- 4. The method of claim 2, wherein the metal layer is fabricated on the surface of the cylindrical body by a dipping, a plating or a sputtering so as to have a certain thickness.

- The method of claim 2, wherein coil pattern is fabricated by a laser process or a mechanical process.
- 6. The method of claim 1, wherein the coil pattern forming process comprises the steps of:

winding a thread-shaped flexible material including conductive paste on the surface of the cylindrical body; and

hardening the conductive paste included in the flexible material.

- 7. The method of claim 6, wherein the thread-shaped flexible material includes a metal element by passing through a container containing conductive paste.
- 8. The method of claim 6, wherein the thread-shaped flexible material is a combustible material vanished in a following sintering process.
- 9. The method of claim 1, wherein the coil pattern forming process comprises the steps of:

winding a tape having a certain thickness and a width on the surface of the cylindrical body as a spiral shape with a certain interval;

coating conductive paste on a distance between the wound tapes; and hardening the coated conductive paste.

10. The method of claim 9, wherein the tape is a combustible material vanished in a following sintering process.

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11. The method of claim 1, wherein the coil pattern forming process comprises the steps of:

winding a thread-shaped flexible material free of conductive paste on the outer circumference of the cylindrical body as a spiral shape having a certain interval:

coating conductive paste on the outer circumference of the cylindrical body by dipping the cylindrical body in a container containing the conductive paste for a certain time; and

hardening the coated conductive paste for a certain time.

- The method of claim 11, further comprising:
 eliminating the flexible material from the cylindrical body.
- 13. The method of claim 1, wherein the organic binder is a material vanished in a sintering process of the cylindrical body.
- 14. The method of claim 13, wherein the organic binder is one or a mixture of not less than two elements among PVA, PVB, polyethylene, polystyrene, polyvinylchloride and polyamide.
- 15. The method of claim 1, wherein the section of the square-shaped mold is a quadrangle.
 - 16. The method of claim 1, further comprising:

forming an exterior coating layer on the cylindrical body with a mixture of ferrite or ceramic powder and thermoplastic organic binder after forming the spiral coil pattern on the surface of the cylindrical body.

- 17. The method of claim 16, wherein the exterior coating layer forming process is performed after transforming the cylindrical body into a square-shaped body.
 - 18. The method of claim 1, further comprising:

supplying an additional mixture around the cylindrical body inside the square-shaped mold so as to form a square-shaped body after inserting the cylindrical body into the square-shaped mold.

- 19. The method of claim 18, wherein the additional mixture is a material same as the material used for forming the cylindrical body.
 - 20. The method of claim 1, further comprising:

cutting the transformed square-shaped body so as to have a certain length.

21. The method of claim 1, further comprising: sintering the transformed square-shaped body; and

forming an outward electrode on both ends of the sintered body.

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22. A method for fabricating a surface mountable chip inductor, comprising:

forming a cylindrical body by mixing ferrite or ceramic powder with thermoplastic organic binder;

forming a coil pattern on a surface of the cylindrical body; and transforming the cylindrical body into a square-shaped body through a square-shaped extruder.

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